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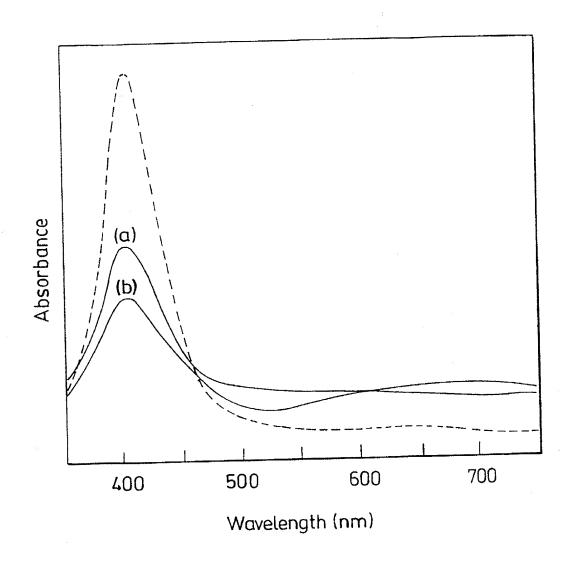


Fig. 1

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2/9

A1

A2

Α3

Α7

**A8** 

Where  $R_{10} = (CH_2)_n - COOH$ 

$$(CH_2)_n - PPh_2$$

$$(CH_2)_n - SH$$

$$(CH_2)_n - NH_2$$

$$(CH_2)_n - OH$$

$$n = 0 - 4$$

Α9

$$H_2N = N R_2$$

A10

$$N = N$$
 $N = N$ 
 $N = N$ 
 $N = N$ 
 $N = N$ 

Fig. 2

3/9

**A5** 

R<sub>1</sub> R<sub>2</sub> R<sub>3</sub> R<sub>6</sub> R<sub>6</sub> R<sub>6</sub> R<sub>6</sub>

**A6** 

Where  $R_1 - R_6 =$  — phenyl, naphthyl, pyridyl etc — analyte — CH=CHR

C = NR

 $-C=N^{\dagger}R$ 

- C=N R

0.

-C(H)O-C(R)O

-C(R)O-C(NHR)O

-CH2NHR

-CH<sub>2</sub>OR

-CH<sub>2</sub>halogen

 $-N_3$ 

-NO

 $-NO_2$ 

-NHCONHR

- NHCSNHR

- NHCOR

- NHR

- OH

- OR

SīR<sub>3</sub>SH

-SR

-SSR

- SeR

- SnR<sub>3</sub>

- PbR<sub>3</sub>

where R = H
 or any alkyl, aryl group

W,X,Y,Z = C,O,S or Nn,m = any integer > 1

## Fig. 2(continued)

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A12

A13

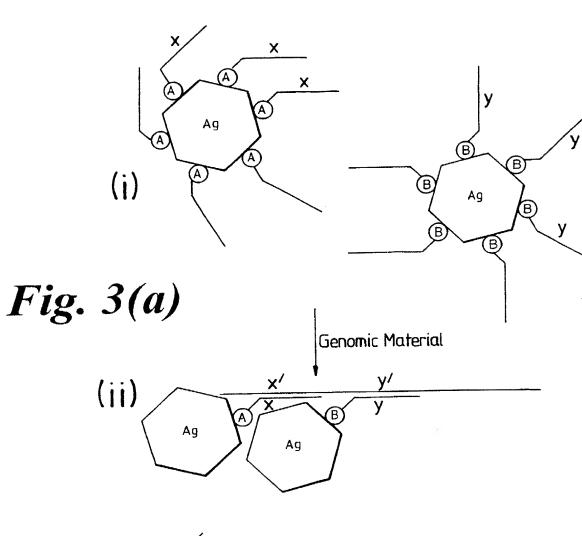
$$R_{11}$$
 Where X=N or C  $NH_2$   $NH_2$   $NH_2$ 

$$R_{11} = -Ph - N = N - Rg$$
  
or  $-CH_2 - Ph - N = N - Rg$ 

# Fig. 2 (continued)

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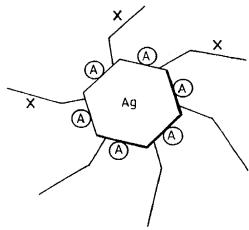


Fig. 3(b)



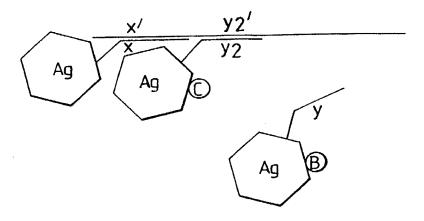


Fig. 3(c)

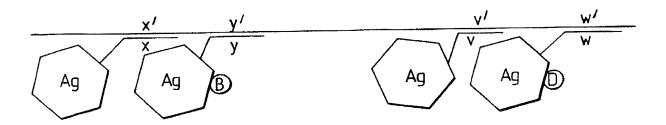


Fig. 3(d)

7/9 NH<sub>2</sub> NH<sub>2</sub> HŅ-HN pH6.0 N≡N<sup>†</sup> (1) DCM/Acetone HN HO HŅ Scheme 1 DNA-NH<sub>2</sub> (2) HŅ Scheme 2 Fig. 4 H0-

#### SUBSTITUTE SHEET (RULE 26)

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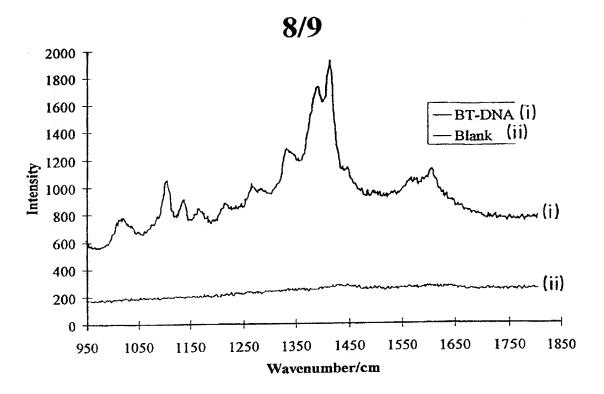
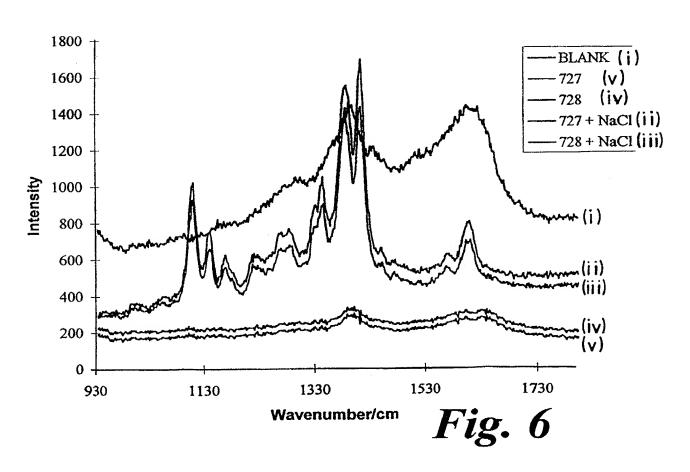
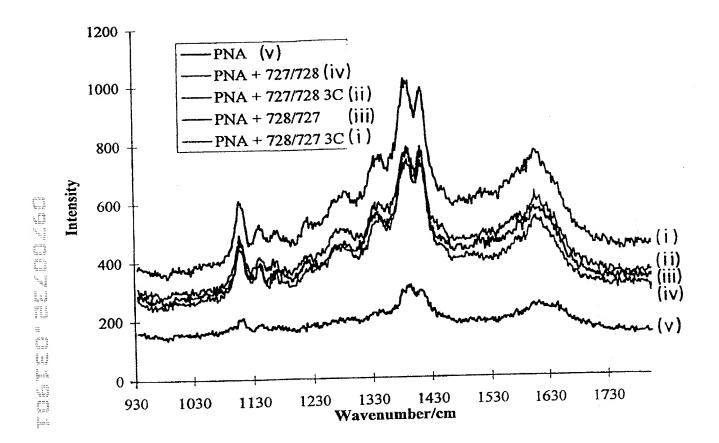


Fig. 5



### SUBSTITUTE SHEET (RULE 26)



*Fig.* 7